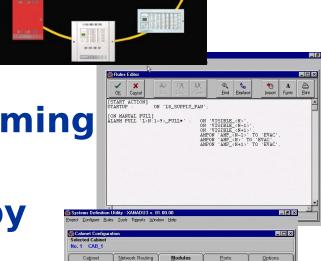


Signature Data Circuit
Mapping: What is It, and How
Does It Work?



EST Product Innovations

- Multi-priority Token Ring
- Circuit Mapping
- Multi-Sensor Technology
- Bar Code Addressing
- Rules & Objects Programming
- 8 Channel Digital Audio
- Ground Fault Detection by Device
- Multiple Levels of Survivabil

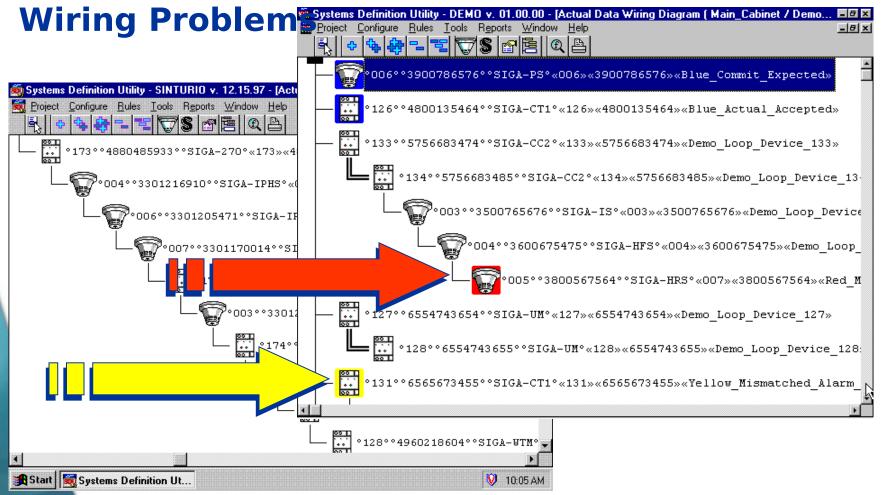






Signature Mapping Provides:

Reliable "As-Built" Drawings to Help Solve

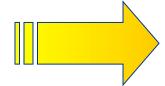




Signature Mapping Provides:

Benefits to -

- Installers verification that devices and wiring are correct during installation
- <u>Service Personnel</u> ability to locate and identify problems quickly
- <u>Building Owners</u> reduction in maintenance costs



Mapping is ONLY available with EST fire alarm systems.

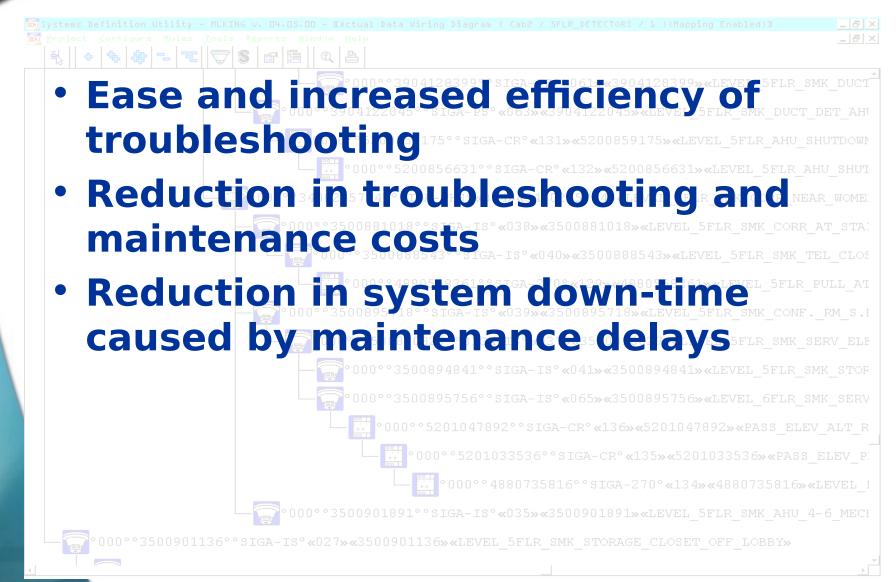


What Is Mapping?

- The ability of each Signature device to electrically locate itself on the Signature Data Circuit (SDC) with respect to every other Signature device installed on the circuit.
- An SDC map shows the actual electrical relationships between all Signature devices as they are installed on the devicercuit, not the way the contract "swears" they were installed.

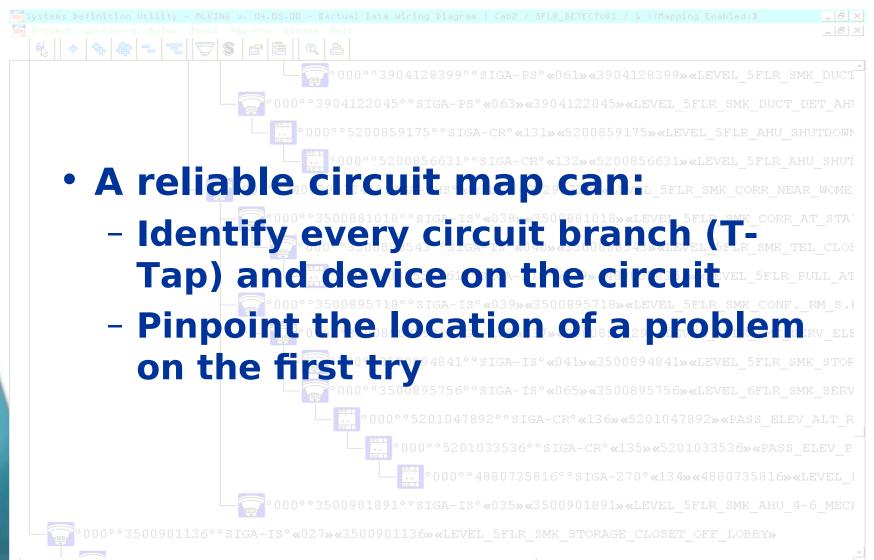


Why Map a Circuit?





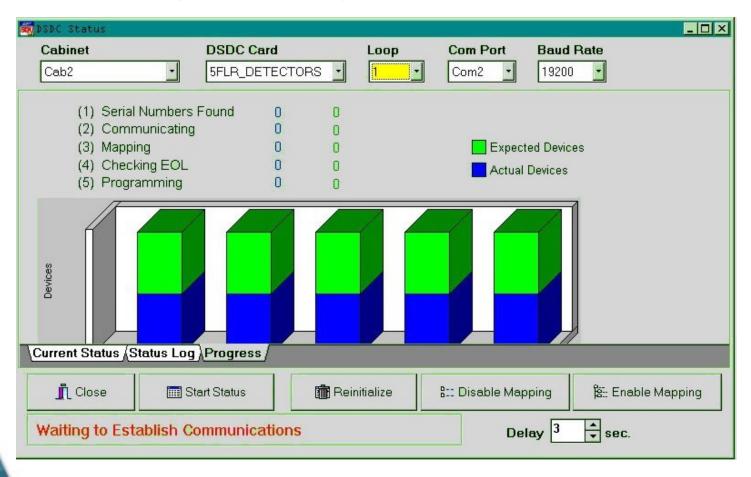
Why Map a Circuit?





Tools for Use With the Mapping Function

Mapping in Progress screen





Tools for Use With the Mapping Function

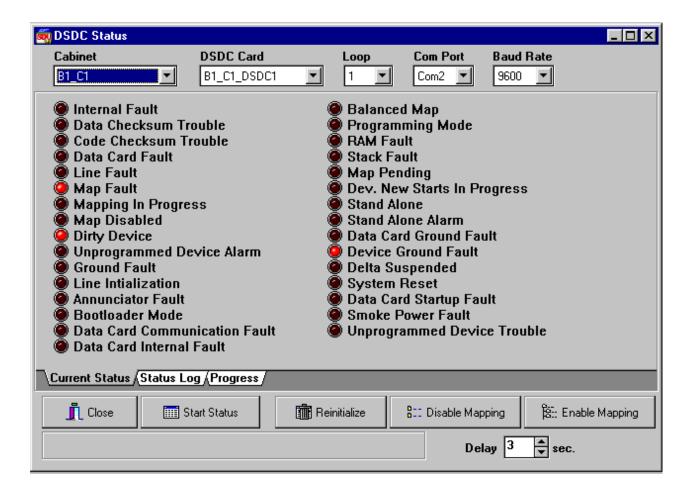
Circuit Status screen





Tools for Use With the Mapping Function

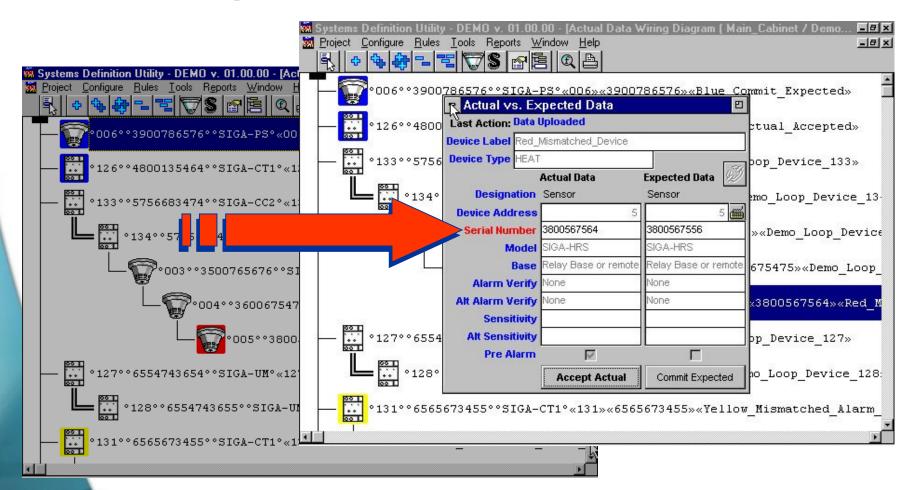
Circuit Status screen





Additional Mapping Benefits

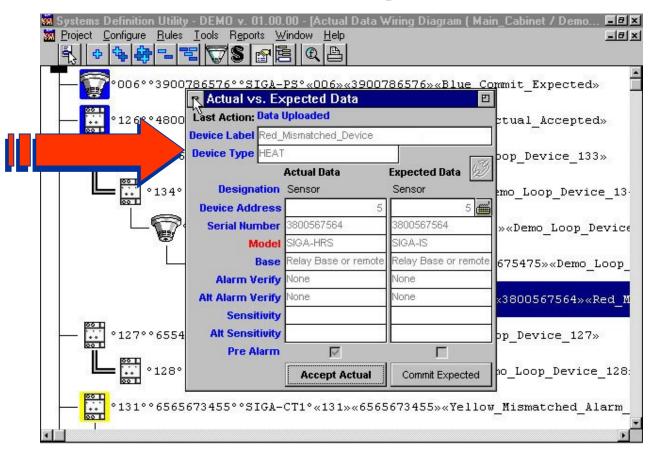
Identify Unexpected Devices





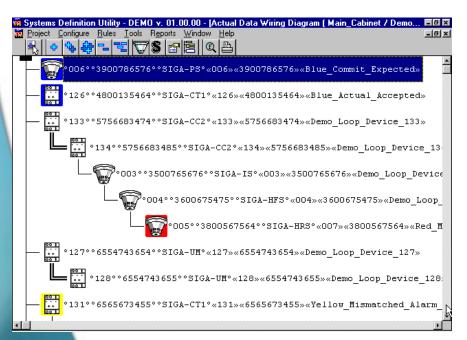
Additional Mapping Benefits

Incorrect Device Type Installation



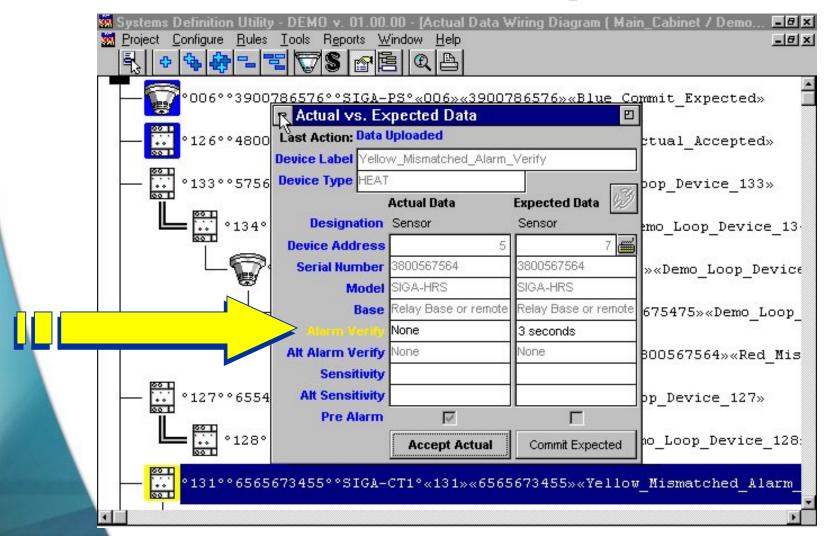


 Device Background Color Indicates Comparison Status

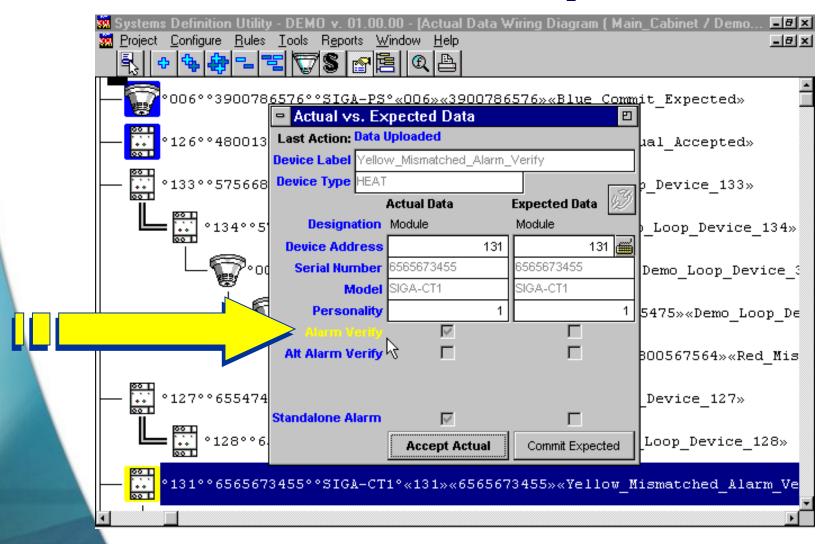


- White = No Conflict
- Blue = Change Made
- Yellow = Minor Conflict (Verification times, sensitivity)
- Red = Major Conflict (Personality Code, model, address, S/N, base)

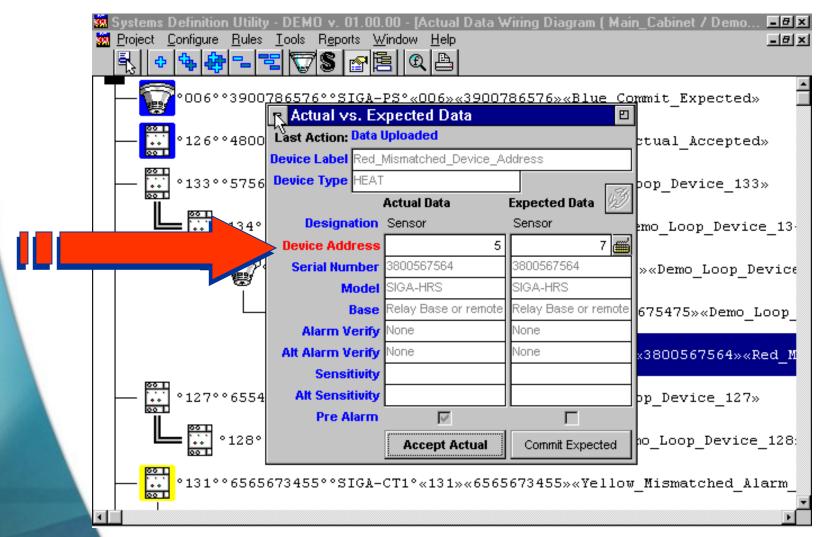














Device Replacement Simplified

- Replacements for damaged devices are automatically accepted by the system if both devices have the same device type
- The system automatically enters the appropriate parameters into the replacement device's memory
- Incorrect devices generate a device mis-match and map fault



System Function Correlates with Device Location

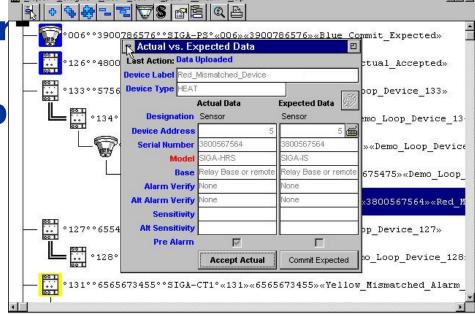
- Mapping permits the correlation of a system function with a device location on a map, not the device's address!
 - Should devices inadvertently be swapped during service, the system will function as designed. The functionality remains constant and DOES NOT FOLLOW THE DEVICE!



Easy Identification of Devices Added or Removed From Circuit

 A Map Fault is generated and displayed on the Control Pane

 An Unexpected (or missing) device is shown on the map





How Does Mapping Work?

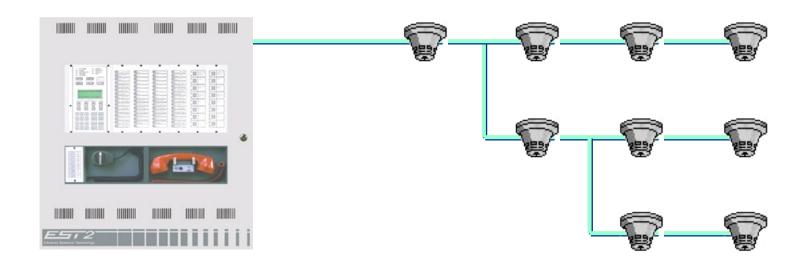
 Each Signature Device has a unique serial number which is entered into memory at the time of manufacture





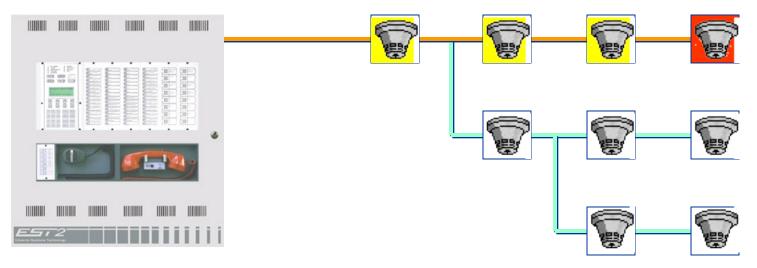


Upon startup, the SDC identifies every serial number it sees.



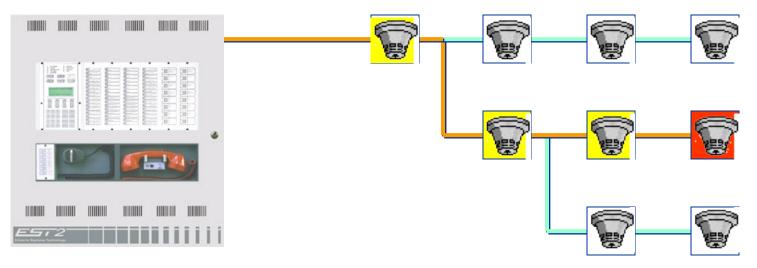


The SDC instructs one device to momentarily increase its load; then checks all the remaining devices to see the effect of the increased load current.



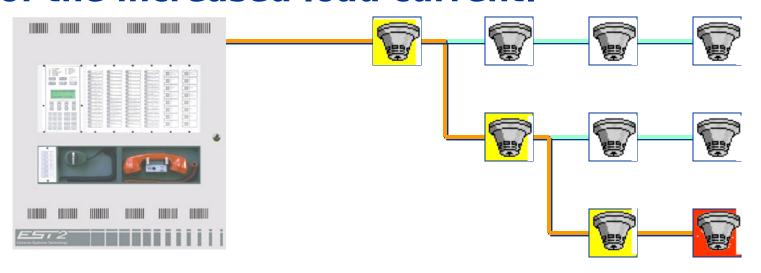


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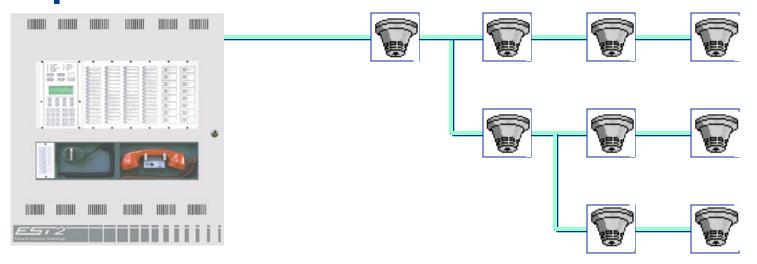


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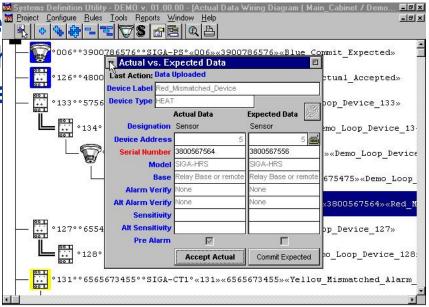
After every device has gone through this cycle, the system knows the relationship between all devices and can generate a map.

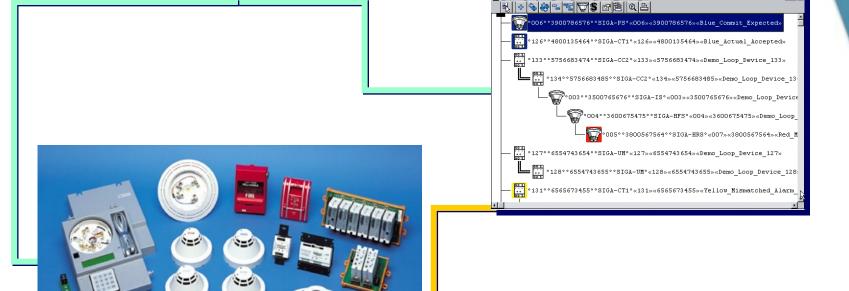




Basic Mapping Advantages

- Quick, easy, and efficient troubleshooting = Low Maintenance Costs
- Accurate "As-built" maps of circuits as installed
- Comparison of expecte Project Configure Bules Tools Reports Window device parameters with actual device parameter actual device parameter Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Project Configure Bules Tools Reports Window device Parameter Suit Parameter Sui





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